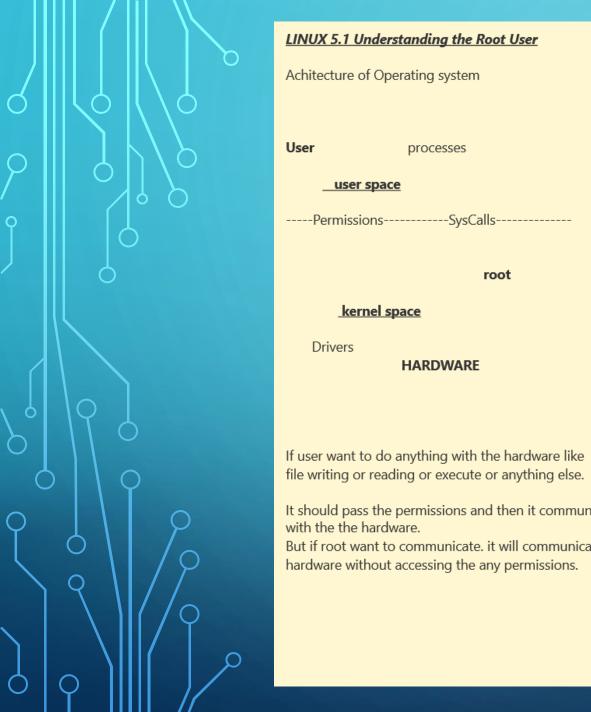
# CHAPTER 5

By:

Vishu Goyal

Etisha Jain



It should pass the permissions and then it communicate

But if root want to communicate. it will communicate directly with

# LINUX 5.2 Logging into the GUI

Upper right corner there is shortcuts.

you can also login the ordinary user and also login the non ordinary user.

# LINUX 5.3 Logging in to the Console

you can login with the user without have a GUI by passing username and its passwd to login.

# LINUX 5.4 Understanding the virtual terminals

default terminal are 6 in linux: ctrl + alt + funtion key with sequence number

# LINUX 5.5 Switching Between Virtual Terminals

- tty1- tty6 are available for login
- if installed and active, the GUI is on tty1
- · use chvt to switch between virtual terminals
- or use Ctrl + Alt + Fn for GUI mode

# LINUX 5.6 Using su to work as Another User

- su is used to open a sheel as another user
- Useful to open a root shell
- For root, useful to test functionality as a user.
- The password of the target user is required for security
- Use su- to open a login shell
- This will give complete access to the environment of the target user.
- chvt command only works with root user other ordinary user will not works
- shows an error file descriptor.

# LINUX 5.7 Using sudo to perform Administrator Task

- sudo is used to run task as another user.
- sudo prompts for the password of the current user
- Users must be authorized to use sudo
- Authorization through /etc/sudoers.d/\*
- donot edit the above files directly use **visudo** to edit sudoers files
- users that are the members of the group wheel can use sudo to run administrations tasks.

## **Practical**

- In the root shell, visudo and then press enter
- press G to go down of the page.
- allows people in group wheel to run all commands
- %wheel ALL=(ALL) ALL
- Same thing without a password
- %wheel ALL=(ALL) NOPASSWD: ALL
- Allows members of the users group to shutdown this system
- %users localhost=/sbin/shutdown -h now
- linda ALL=/usr/sbin/useradd, /usr/bin/passwd
- linda will add the user and change the passwd through any pc
- id it shows the id and group of the student
- su to move in root user
- The below command will allows you to give permission to use sudo permission
- usermod -aG wheel student it will add a user to a group wheel
- exit
- id it doesn't reflect it thats why we can login it again.
- login again
- now
- sudo useradd bob
- tail -n 1 /etc/passwd
- su linda
- sudo useradd alice
- tail -n 1 /etc/passwd
- sudo passwd alice
- successfully run all the above cmd becox of changing in the configuration files
- but, **sudo userdel -rf alice** won't works properly because it doesn't have permission to access it.

# LINUX 5.8 Using ssh to Log in Remotely

- SSH is Secure Shell, and used to establish a secured remote connection
- Identity of target server is verified through host keys
- After initial connection, host key is stored in ~/.ssh/known\_hosts
- Sensitive data will be sent through an encrypted connection
- Use **ssh** -**X** or **ssh** -**Y** to display graphical screens from the target server locally.
- ssh localhost
- ssh <u>linda@localhost</u>
- ssh -Y linda@localhost

# Thank You for Reading this Slides...